

hPL-3 hPL-4 hPL-1

	SIGNAL PEPTIDE	SECRETED PEPTIDE
hPL-3	MAAGSRTSLLLAFALLCLPWLQEAGA	VQTVPLSRLFDHAMLQAHRAHQLAIDTY...
hPL-4	MAPGSRTSLLLAFALLCLPWLQEAGA	VQTVPLSRLFDHAMLQAHRAHQLAIDTY...
hPL-1	MAAGSRTSLLLAFALLCLPWLQEAGA	VQTVPLSRLFKEAMLQAHRAHQLAIDTY...
26/28 (93%) IDENTICAL, 26/28 (93%) SIMILAR		

FIG.1

	SIGNAL PEPTIDE	SECRETED PEPTIDE
hPL (1-28)	MAAGSRTSLLLAFAALLCLPWLQEAGA	VQTVPLSRLFDHAMLQAHRAHQLAIDTY*
hPL-3	MAAGSRTSLLLAFAALLCLPWLQEAGA	VQTVPLSRLFDHAMLQAHRAHQLAIDTY...
hPL-4	MAPGSRTSLLLAFAALLCLPWLQEAGA	VQTVPLSRLFDHAMLQAHRAHQLAIDTY...
		28/28 (100%) IDENTICAL, 28/28 (100%) SIMILAR

FIG.2

	SIGNAL PEPTIDE	SECRETED PEPTIDE
hPL (1-28)	MAAGSR T S L L L A F A L L C L P W L Q E A G A	V Q T V P L S R L F D H A M L Q A H R A H Q L A I D T Y *
hPL-1	MAAGSR T S L L L A F A L L C L P W L Q E A G A	V Q T V P L S R L F K E A M L Q A H R A H Q L A I D T Y . . .
		26/28 (93%) IDENTICAL, 26/28 (93%) SIMILAR

FIG.3

	SIGNAL PEPTIDE	SECRETED PEPTIDE
hPL (1-28)	MAAGSR T S L L L A F A L L C L P W L Q E A G A	V Q T V P L S R L F D H A M L Q A H R A H Q L A I D T Y *
hGH-1	M A T G S R T S L L L A F G L L C L P W L Q E G S A	+ + + + +
		F P T I P L S R L F D N A S L R A H R L H Q L A F D T Y . . .
	20/28 (71%) IDENTICAL,	25/28 (89%) SIMILAR

FIG.4

	SIGNAL PEPTIDE	SECRETED PEPTIDE
hPL (1-28)	MAAGSR T S L L L A F A L L C L P W L Q E A G A	V Q T V P L S R L F D H A M L Q A H R A H Q L A I D T Y *
hGH-v	MAAGSR T S L L L A F G L L C L S W L Q E G S A	+ + + + + + F P T I P L S R L F D N A M L R A R D L F D R A V V L S H Y . . .
		13/28 (46%) IDENTICAL, 19/28 (68%) SIMILAR

FIG.5

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FIG. 6

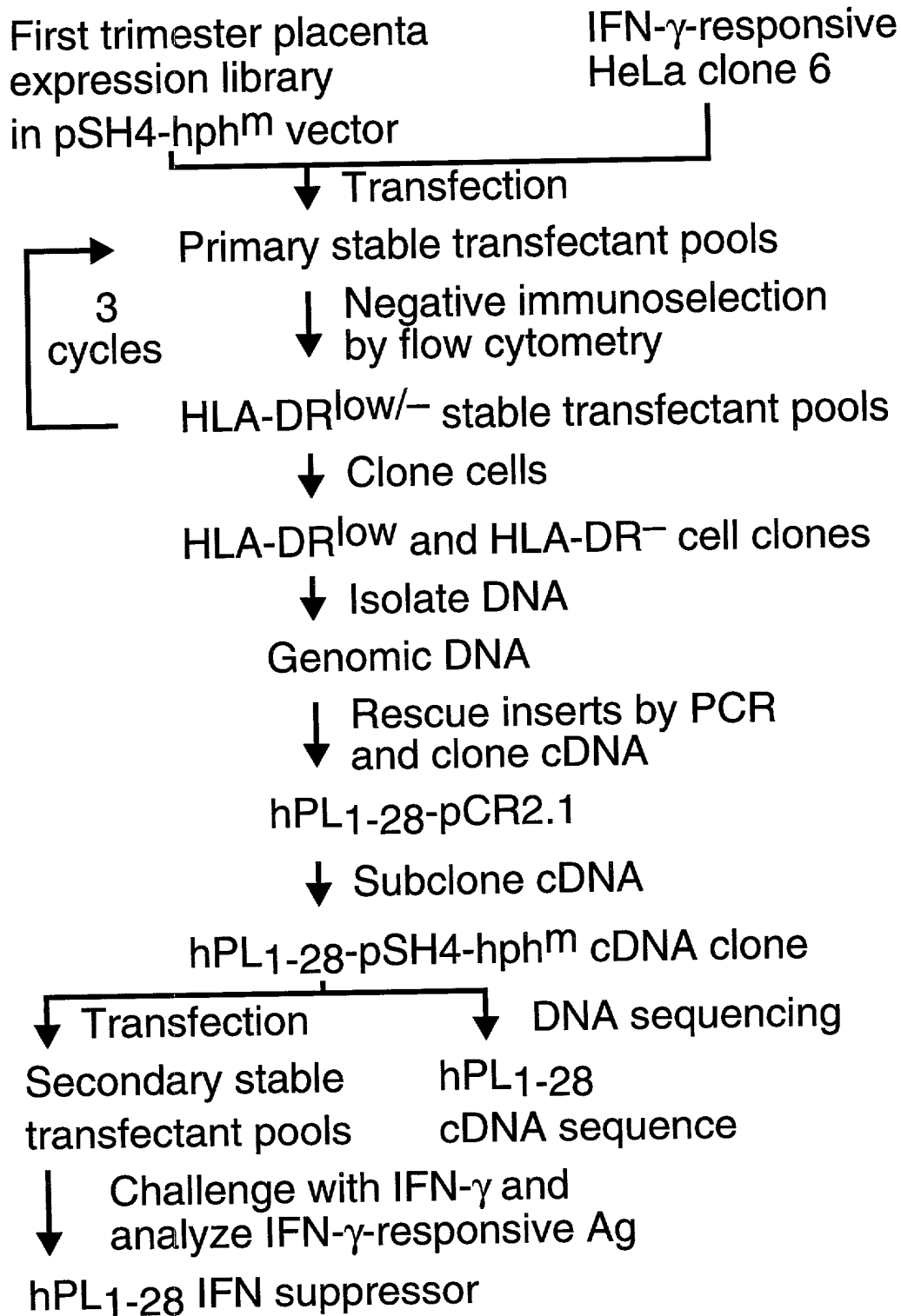
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5' - ATGGCTCCAGGCTCCCGACGTCCCTGCTCCTGGCTTTTGCCCTGCTCTGCCT
GCCCTGGCTTCAAGAGGCTGGTGCCGTCCAAACC-3'
|||||
3' - GCAGGTTTGGCAAGGCAATAGGTCCGAAAAA
CTGGTCCGATACGAGGTTCCGGTAGCGCGCGTGGTCGACCGTAAC TGTGGATG-5'

FIG.7A

5' - ATGGCTGCAGGCTCCCGACGTCCCTGCTCCTGGCTTTTGCCCTGCTCTGCCT
GCCCTGGCTTCAAGAGGCTGGTGCCGTCCAAACC-3'
|||||
3' - GCAGGTTTGGCAAGGGAATAGGTCCGAAAAA
TTTCTCCGATACGAGGTTCCGGTAGCGCGTGGTCGACCGTAAC TGTGGATG-5'

FIG.7B

**FIG.8**

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MAAGSRTSLLLAFALLCLPWLQ**EAG**₁VQTVPLSRFLFDHAMLQAHRAHQLAIDTY₂₈

Signal peptide Secreted peptide

Signal peptide

Secreted peptide

FIG. 9A

1-CTGTGGACAGCTCACCTAGCGGCAATGGCTGCAGGCTCCCGGACGTCCTGCTCCTGGCT

TTTGGCCCTGCTCTGCCCTGGCTTCAAGAGGCTGGTGCCGTCCAAACCGTTCCCGTTA
F A L L C L P W L Q E A G A V₁ Q T V P L
TCCAGGCTTTTGGACCCACGCTATGCTCCAAAGCCCATCGCGGCACCAAGCTGGCCATTGAC
S R L F D H A M L Q A H R A H Q L A I D
ACCTACTAGGAGTTTGAAGAAACCTATATCCCCAAAGGACCAGAAAGTATTCATTCCCTGCA
T Y₂₈ Ter
GACTCCCAGACCTCCTTCTGCTTCTCAGACTCTATTCGGACACCCCTCCAACATGGAGGAA
ACGCAACAGAAATCCAATCTAGAGCTGCTCCGCATCTCCCTGCTGCTCATCGAATCGTGG
CTGGAGCCCGTGCGGTTCTTCAGGAATATGTTCCGCCAACAAACCTGGTGATGACACCTCG
GACAGCGATGACTATCACCTCTAAAGGACCTAGAGGAAGGCATCCAAACGCTGATGGGG
AGGCTGGAAGACGCGAGCCCGGACTGGGCAGATCCTCAAGCAGACCTACAGCAAGTTT
GACACAAACTCGCACAAACCATGACGCACCTGCTCAAGAACTACGGGCTGCTCTACTGCTTC
AGAAAGGACATGGACAAGGTCGAGACATTCCTGCGCATGGTGACGTGCCGCTCTGTGGAG
GGCAGCTGTGGCTTCTAGGTGCCCCGCTGGCATCCTGTGACCGACCCCTCCCCAGTGCCT
CTCCTGGCCCCCTGGAAGGTGCCACTCAGTGCCCCATCAGCCCTTGTCCTAATAAAATTAAAGT
TGTATCATC -789

FIG.9B

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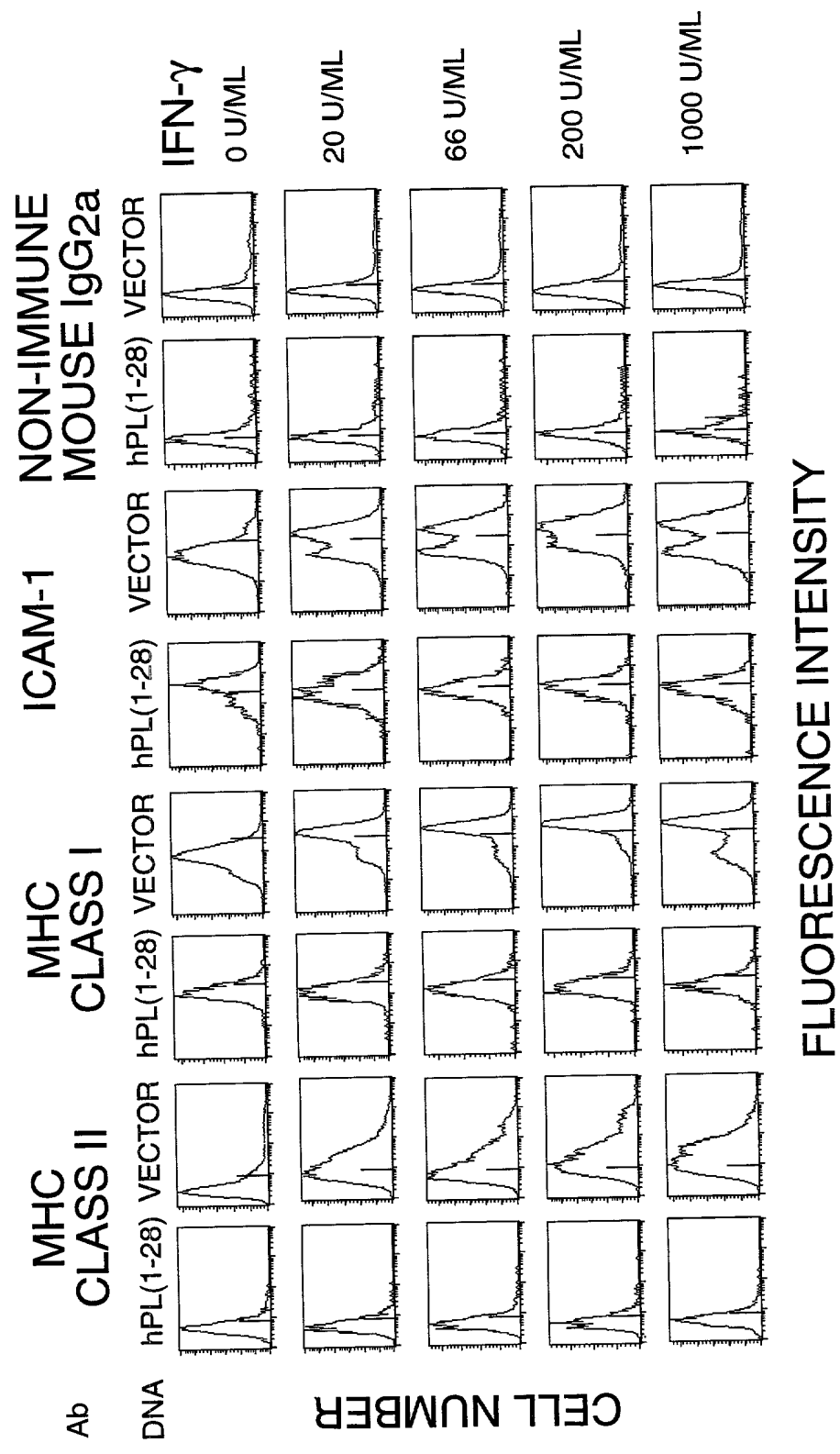
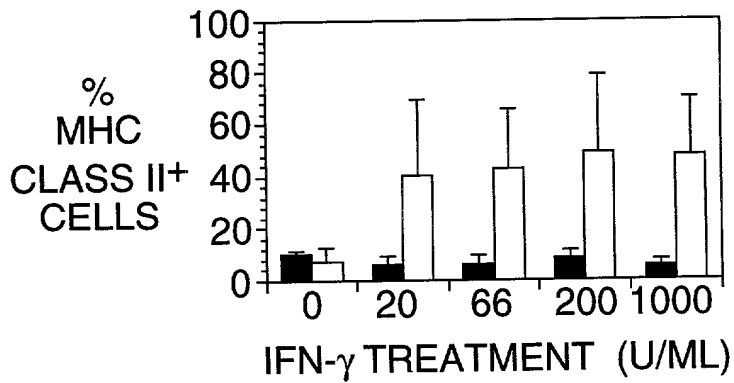
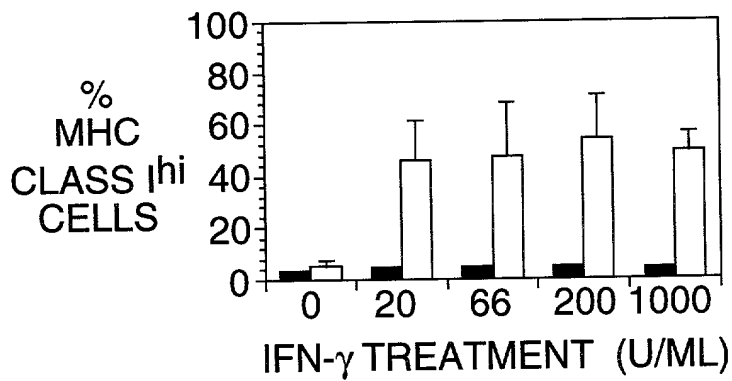
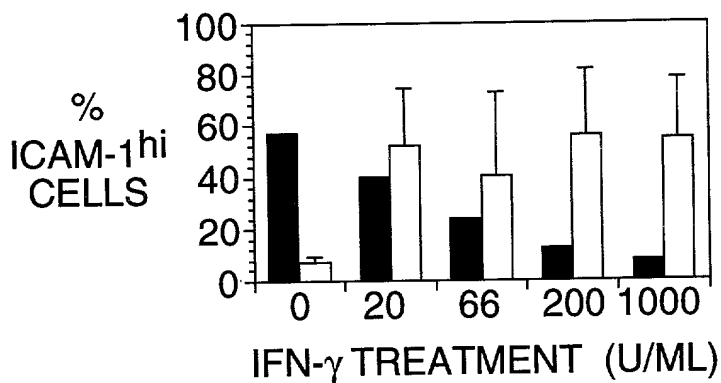


FIG.10

**FIG.11A****FIG.11B****FIG.11C**

■ hPL(1-28)-pSH4-hph^m-HeLa
□ EMPTY VECTOR-HeLa